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a roll-up storage configured to cooperate with an adjacent straight storage tray to roll up the sheet discharged by said discharging member with the image surface being positioned inside and store said sheet in a form of a roll.

REMARKS

Favorable reconsideration of this application in light of the following discussion is respectfully requested.

Claims 1-134 are presently active in this case; Claims 1-3, 12-16, 33, 41-43, 51, 52, 54, 55, 58-60, 62, 64, 66-70, 79, 81-83, 99, 100, 108-111, 118, 122, 125-129, 131, 133 and 134 having been amended by way of the present amendment.

In the outstanding Office Action, Claims 1-3, 14 and 15 were indicated as being a substantial duplicate of Claims 68-70, 89 and 82 respectively; Claim 131 was objected to for minor informalities; Claims 34, 62, 101 and 129 were rejected under 35 U.S.C. §112, first paragraph, as containing subject matter which was not described in the specification; Claims 3, 13, 15, 41-43, 52, 70, 82, 99 and 108-110 were rejected under 35 U.S.C. § 112, second paragraph, as being indefinite; Claims 1-3, 14-16, 19, 21, 22, 29, 51, 52, 54, 55, 59, 60, 64, 66-69, 81, 83, 86, 88, 89, 96, 99, 119, 122, 126, 127, 131, 133, and 134 were rejected under 35 U.S.C. §102(b) as being anticipated by U.S. Patent No. 4,838,497 to Kramer et al.; Claims 12, 13, 58, 79, 80, and 125 were rejected under 35 U.S.C. §103(a) as being unpatentable over Kramer in view of U.S. Patent No. 5,980,139 to Chapman et al.; Claims 33, 41, 100, 108, and 128 were rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 4,720,728 to Kando in view of Kramer; Claims 25 and 92 were rejected under 35 U.S.C. §103(a) as being unpatentable over Kramer further in view of U.S. Patent No. 5,383,656 to

Mandel et al.; Claims 27 and 94 were rejected under 35 U.S.C. §103(a) as being unpatentable over Kramer in view of Kando; Claims 39 and 106 were rejected under 35 U.S.C. §103(a) as being unpatentable over Kando in view of Kramer, and further in view of U.S. Patent No. 5,887,867 to Takahashi et al.; and Claims 17 and 84 were rejected under 35 U.S.C. §103(a) as being unpatentable over Kramer.

IN response to the indication that Claims 1-3, 14 and 15 are a substantial duplicate of Claims 68-70, 81 and 82, respectively, Applicants submit that these claims have a different scope. Specifically, Claims 1-3, 14 and 15 are claimed in means-plus-function format, which requires interpretation of these claims under 35 U.S.C. §112, sixth paragraph. In contrast, Claims 68-70, 81 and 82 are claimed in non-means-plus-function format, and therefore are not interpreted under 35 U.S.C. §112, sixth paragraph. Applicants respectfully submit that it is settled law that claims interpreted under 35 U.S.C. §112, sixth paragraph have a different scope than corresponding in non-means-plus-function format. Therefore, the claims indicated by the examiner are not substantial duplicates and the objection should be withdrawn.

With regard to the rejection under 35 U.S.C. §112, first paragraph, Applicants respectfully submit that Claims 34, 62, 101 and 129 are properly described in the specification as originally filed. Specifically, these claims recite an intersection restricting means or member that restricts intersection of a straight storing means or device with a roll up storing means or device. Restriction of the intersection of these trays causes the trays to work in cooperation to form a roll up space for rolling up a sheet. This is described in Applicants' specification at page 11, lines 19 - page 12, line 3. Therefore, the rejection under 35 U.S.C. §112, first paragraph should be withdrawn.

In response to the rejection under 35 U.S.C. § 112, second paragraph, Claims 3, 13, 15, 41-43, 52, 70, 82, 99 and 108-110 are amended to correct the noted informalities. Therefore, the rejection under 35 U.S.C. § 112, second paragraph, is believed to be overcome and no further rejection on this basis is anticipated. If, however, the Examiner disagrees, the Examiner is invited to telephone the undersigned who will be happy to work with the Examiner in a joint effort to derive mutually satisfactory claim language.

Turning now to the merits, in order to expedite issuance of a patent in this case, Applicants have now amended the independent claims to clarify the patentable features of the claimed invention over the cited references. Specifically, the independent claims, as amended, recite that the roll up storing means or device receives or rolls up the paper in cooperation with an adjacent straight storage tray. As seen in the exemplary embodiment shown in Figure 1 of the present application, the roll up storage tray 27 includes discreet roll up members separated from one another similar to the teeth of a comb.¹ The roll up guide 27 is rotatable to a position intersecting with the first flat tray 26, which also has a teeth of a comb-like structure. When the roll up guide 27 is rotated to an adjacent position with the first tray 26, the teeth like portions of these respective trays intersect one another to form a roll up area. Thus, the roll up guide 27 and first tray 26 work in cooperation to receive and roll up the sheet.

In contrast, the cited reference to Kramer et al. discloses an apparatus for automatically rolling up media sheets. As seen in Figure 1 and Figure 2 of the Kramer et al. reference, the roll up members 92 do not cooperate with any adjacent flat tray device to receive and/or roll up a sheet. As to the cited reference to Kando, Figures 2A and 2B

¹See Applicants' specification at page 8, lines 5-8.

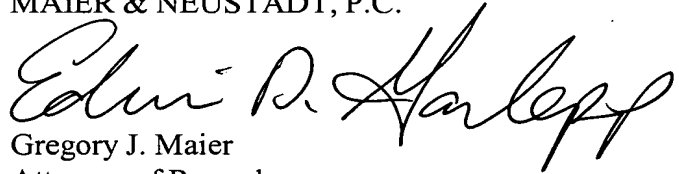
illustrate separate paper receptacles that can be used with an image forming apparatus. That is, the flat tray of Figure 2A and the curved tray of Figure 2B are interchangeable on an image forming apparatus, but cannot exist together on the image forming apparatus. This is further demonstrated by Figure 5 which shows the flat tray 5 in phantom and the curved tray 6 in solid drawing format. Because the trays 5 and 6 of Kando are used separately from one another, there is no cooperation between these two trays and performing the functions of receiving and/or rolling up a paper. Therefore, neither Kramer et al. nor Kando et al. disclose a means or device for receiving and/or rolling up, in cooperation with an adjacent straight storage tray, the sheet discharged from a sheet conveying device.

Finally, the cited reference to Chapman et al. is cited merely for the teaching of speed control, the cited reference to Mandel et al. is cited merely for the teaching of using a mylar sheet as a discharge guide, and the cited reference to Takahashi et al. is cited merely for the teaching of multiple discharge ports. Thus, these secondary references do not correct the deficiencies of Kramer et al. and Kando et al. noted above. Therefore, Applicants' independent claims, as amended, patentably define over the cited references. Moreover, as the remaining claims pending in the present case depend from each of the independent claims amended herein, these dependent claims also patentably define over the cited references.

Consequently, in view of the present amendment, no further issues are believed to be outstanding in the present application, and the present application is believed to be in condition for formal Allowance. An early and favorable action is therefore respectfully requested.

Respectfully submitted,

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IN THE CLAIMS

1. (amended): A sheet storage to be mounted to a sheet conveying device for conveying and discharging a sheet, said sheet storage comprising:

roll-up storing means for receiving, in cooperation with an adjacent straight storage tray, the sheet discharged from the sheet conveying device, rolling up said sheet from a leading edge of said sheet, and storing said sheet in a form of a roll; and

connecting means for displaceably connecting said roll-up storing means to the sheet conveying device;

wherein said roll-up storing means is connected to the sheet conveying device such that when said roll-up storing means is displaced, a trailing edge of the sheet rolled up in said roll-up storing means is spaced from said sheet conveying device.

2. (amended): A sheet conveying device comprising:

roll-up storing means for rolling up, in cooperation with an adjacent straight storage tray, a sheet being discharged from said sheet conveying device from a leading edge of said sheet and storing said sheet in a form of a roll; and

spacing means for spacing a trailing edge of the sheet rolled up in said storing means from a body of said sheet conveying device;

wherein the sheet is picked up from said roll-up storing means with the trailing edge of said sheet spaced from said body.

3. (amended): A device as claimed in claim 2, wherein said roll-up storing means has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

12. (amended): A sheet conveying device comprising:

roll-up storing means for rolling up, in cooperation with an adjacent straight storage tray, a sheet being discharged from said sheet conveying device from a leading edge of said sheet and storing said sheet in a form of a roll;

discharging means for discharging the sheet to an outside of said sheet conveying device; and

speed control means for controlling a speed at which said discharging means conveys the sheet;

wherein when the sheet is discharged toward said roll-up storing means, said speed control means increases the speed to thereby space a trailing edge of said sheet rolled up in said roll-up storing means from said discharging means.

13. (amended): A device as claimed in claim 12, wherein said roll-up storing means has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an

inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

14. (amended): A sheet conveying device comprising:

roll-up storing means for rolling up, in cooperation with an adjacent straight storage tray, a sheet being discharged from said sheet conveying device from a leading edge of said sheet and storing said sheet in a form of a roll;

discharging means for discharging the sheet to an outside of said sheet conveying device; and

spacing means for spacing said roll-up storing means from said discharging means to thereby space a trailing edge of the sheet rolled up in said roll-up storing means from said discharging means.

15. (amended): A device as claimed in claim 14, wherein said roll-up storing means has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

16. (amended): A sheet conveying device comprising:

discharging means for discharging a sheet to an outside of said sheet conveying device; and

roll-up storing means for rolling up, in cooperation with an adjacent straight storage tray, the sheet at an outside of said sheet conveying device and storing said sheet in a form of a roll;

wherein said roll-up storing means is movable between a roll-up position for rolling up the sheet and a pick-up position for allowing a person to pick up said sheet at an operating position.

33 (amended): A sheet conveying device for discharging a sheet inserted into a front of said sheet conveying device via discharging means positioned at a rear of said sheet conveying device, said sheet conveying device comprising:

straight storing means protruding to the rear of said sheet conveying device for storing the sheet driven out of said discharging means in a straight position; and

roll-up storing means rotatable about a shaft in an upper portion of said sheet conveying device between a roll-up position, where said roll-up storing means intersects said straight storing means for cooperating with the straight storing means in rolling up the sheet, and a pick-up position above said sheet conveying device;

wherein when the sheet is to be stored in said straight storing means, said roll-up storing means is rotated about said shaft to said pick-up position to thereby unblock a conveyance path, which includes said straight storing means.

41. (amended): A device as claimed in claim 33, wherein said roll-up storing means has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

42. (amended): A sheet conveying device made up of an upper unit and a lower unit openably connected to each other, said sheet conveying device comprising:

straight storing means for storing a sheet discharged at an outside of said lower unit;

roll-up storing means rotatably supported by said upper unit for cooperating with the straight storing means in selectively rolling up, at a position where said roll-up storing means intersects said straight storing means, the sheet entered said straight storing means [with] and an inner periphery of said roll-up storing means; and

intersection restricting means included in said straight storing means for restricting intersection of said straight storing means with said roll-up storing means;

wherein said roll-up storing means slides on said intersection restricting means in interlocked relation to opening of said upper unit away from said lower unit to be thereby restricted intersection thereof with said straight storing means.

43. (amended): A device as claimed in claim 42, wherein said roll-up storing means has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

51. (amended): In a sheet conveying device for conveying a sheet having an image surface to a reading device and discharging said sheet having been read by said reading device, roll-up storing means for cooperating with an adjacent straight storage device to roll [rolls] up said sheet discharged with said image surface being positioned inside to thereby store said sheet in a form of a roll.

52. (amended): A device as claimed in claim 51, wherein said roll-up storing means has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction of said sheet.

54. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

roll-up storing means for receiving, in cooperation with an adjacent straight storage tray, the sheet discharged from the sheet conveying device, rolling up said sheet from a leading edge of said sheet, and storing said sheet in a form of a roll; and

connecting means for displaceably connecting said roll-up storing means to the sheet conveying device;

wherein said roll-up storing means is connected to the sheet conveying device such that when said roll-up storing means is displaced, a trailing edge of the sheet rolled up in said roll-up storing means is spaced from said sheet conveying device.

55. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

roll-up storing means for rolling up, in cooperation with an adjacent straight storage tray, a sheet being discharged from said sheet conveying device from a leading edge of said sheet and storing said sheet in a form of a roll; and

spacing means for spacing a trailing edge of the sheet rolled up in said storing means from a body of said sheet conveying device;

wherein the sheet is picked up from said roll-up storing means with the trailing edge of said sheet spaced from said body.

58. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

roll-up storing means for rolling up, in cooperation with an adjacent straight storage tray, a sheet being discharged from said sheet conveying device from a leading edge of said sheet and storing said sheet in a form of a roll;

discharging means for discharging the sheet to an outside of said sheet conveying device; and

speed control means for controlling a speed at which said discharging means conveys the sheet;

wherein when the sheet is discharged toward said roll-up storing means, said speed control means increases the speed to thereby space a trailing edge of said sheet rolled up in said roll-up storing means from said discharging means.

59. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

roll-up storing means for rolling up, in cooperation with an adjacent straight storage tray, a sheet being discharged from said sheet conveying device from a leading edge of said sheet and storing said sheet in a form of a roll;

discharging means for discharging the sheet to an outside of said sheet conveying device; and

spacing means for spacing said roll-up storing means from said discharging means to thereby space a trailing edge of the sheet rolled up in said roll-up storing means from said discharging means.

60. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

discharging means for discharging a sheet to an outside of said sheet conveying device; and

roll-up storing means for rolling up, in cooperation with an adjacent straight storage tray, the sheet at an outside of said sheet conveying device and storing said sheet in a form of a roll;

wherein said roll-up storing means is movable between a roll-up position for rolling up the sheet and a pick-up position for allowing a person to pick up said sheet at an operating position.

62. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

straight storing means for storing a sheet discharged at an outside of said lower unit;

roll-up storing means rotatably supported by said upper unit for cooperating with said straight storing means in selectively rolling up, at a position where said roll-up storing means intersects said straight storing means, the sheet entered said straight storing means with an inner periphery of said roll-up storing means; and

intersection restricting means included in said straight storing means for restricting intersection of said straight storing means with said roll-up storing means;

wherein said roll-up storing means slides on said intersection restricting means in interlocked relation to opening of said upper unit away from said lower unit to be thereby restricted intersection thereof with said straight storing means.

64. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

roll-up storing means for cooperating with an adjacent straight storage tray to roll [rolls] up said sheet discharged with said image surface being positioned inside to thereby store said sheet in a form of a roll.

66. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

roll-up storing means for receiving, in cooperation with an adjacent straight storage tray, the sheet discharged from the sheet conveying device, rolling up said sheet from a leading edge of said sheet, and storing said sheet in a form of a roll; and

connecting means for displaceably connecting said roll-up storing means to the sheet conveying device; wherein said roll-up storing means is connected to the sheet conveying device such that when said roll-up storing means is displaced, a trailing edge of the sheet rolled up in said roll-up storing means is spaced from said sheet conveying device.

67. (amended): An image reading device including image reading means for reading an image surface of a sheet from above said sheet, said image reading device comprising:

discharging means for discharging the sheet having been read face up; and

roll-up storing means cooperative with an adjacent straight storage tray in rolling up the sheet discharged by said discharging means with the image surface being positioned inside and storing said sheet in a form of a roll.

68. (amended): A sheet storage to be mounted to a sheet conveying device for conveying and discharging a sheet, said sheet storage comprising:

a roll-up storage configured to receive, in cooperation with an adjacent straight storage tray, the sheet discharged from the sheet conveying device, roll up said sheet from a leading edge of said sheet, and store said sheet in a form of a roll; and

a connecting member configured to displaceably connect said roll-up storage to the sheet conveying device;

wherein said roll-up storage is connected to the sheet conveying device such that when said roll-up storage is displaced, a trailing edge of the sheet rolled up in said roll-up storage is spaced from said sheet conveying device.

69. (amended): A sheet conveying device comprising:

a roll-up storage configured to roll up a sheet being discharged from said sheet conveying device, in cooperation with an adjacent straight storage tray, from a leading edge of said sheet and store said sheet in a form of a roll; and

a spacing member configured to space a trailing edge of the sheet rolled up in said roll-up storage from a body of said, sheet conveying device;

wherein the sheet is picked up from said roll-up storage with the trailing edge of said sheet spaced from said body.

70. (amended): A device as claimed in claim 69, wherein said roll-up storage has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

79. (amended): A sheet conveying device comprising:

a roll-up storage configured to roll up, in cooperation with an adjacent straight storage tray, a sheet being discharged from said sheet conveying device from a leading edge of said sheet and store said sheet in a form of a roll;

a discharging member configured to discharge the sheet to an outside of said sheet conveying device; and

a speed controller constructed to control a speed at which the discharging member conveys the sheet;

wherein when the sheet is discharged toward said roll-up storage, said speed controller increases the speed to thereby space a trailing edge of said sheet rolled up in said roll-up storage from said discharging member.

81. (amended): A sheet conveying device comprising:

a roll-up storage configured to roll up, in cooperation with an adjacent straight storage tray, a sheet being discharged from said sheet conveying device from a leading edge of said sheet and store said sheet in a form of a roll;

a discharging member configured to discharge the sheet to an outside of said sheet conveying device; and

a spacing member for spacing said roll-up storage from said discharging member to thereby space a trailing edge of the sheet rolled up in said roll-up storage from said discharging member.

82. (amended): A device as claimed in claim 81, wherein said roll-up storage has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

83. (amended): A sheet conveying device comprising:

a discharging member configured to discharge a sheet to an outside of said sheet conveying device; and

a roll-up storage configured to roll up, in cooperation with an adjacent straight storage tray, the sheet at an outside of said sheet conveying device and store said sheet in a form of a roll;

wherein said roll-up storage is movable between a roll-up position for rolling up the sheet and a pick-up position for allowing a person to pick up said sheet at an operating position.

99. (amended): A device as claimed in claim 83, wherein said roll-up storage has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet

extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

100. (amended): A sheet conveying device for discharging a sheet inserted into a front of said sheet conveying device via a discharging member positioned at a rear of said sheet conveying device, said sheet conveying device comprising:

a straight storage protruding to the rear of said sheet conveying device for storing the sheet driven out of said discharging member in a straight position; and

a roll-up storage rotatable about a shaft in an upper portion of said sheet conveying device between a roll-up position, where said roll-up storage intersects said straight storage and cooperates with the straight storage for rolling up the sheet, and a pick-up position above said sheet conveying device;

wherein when the sheet is to be stored in said straight storage, said roll-up storage is rotated about said shaft to said pick-up position to thereby unblock a conveyance path, which includes said straight storage.

108. (amended): A device as claimed in claim 100, wherein said roll-up storage has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

109. (amended): A sheet conveying device made up of an upper unit and a lower unit openably connected to each other, said sheet conveying device comprising:

a straight storage configured to store a sheet discharged at an outside of said lower unit;

a roll-up storage rotatably supported by said upper unit for cooperating with the straight storage in selectively rolling up, at a position where said roll-up storage intersects said straight storage, the sheet entered said straight storage [with] and an inner periphery of said roll-up storage; and

an intersection restricting member included in said straight storage for restricting intersection of said straight storage with said roll-up storage;

wherein said roll-up storage slides on said intersection restricting member in interlocked relation to opening of said upper unit away from said lower unit to be thereby restricted in intersection thereof with said straight storage.

110. (amended): A device as claimed in claim 109, wherein said roll-up storage has an inner periphery having an arcuate cross-section in a direction of sheet conveyance, an inlet extending in a widthwise direction of the sheet, and opposite open ends in said widthwise direction.

111. (amended): A sheet-conveying device comprising:

a roll-up storage configured to cooperate with an adjacent straight storage device to roll up a sheet discharged in a form of a roll to thereby store said roll;

a width restricting member configured to restrict, when said roll-up storage rolls up the sheet, said sheet in a widthwise direction to thereby prevent said sheet from twisting; and

a spacing member configured to space a trailing edge of the sheet rolled up in said roll-up storage from a body of said sheet conveying device.

118. (amended): In a sheet conveying device for conveying a sheet having an image surface to a reading device and discharging said sheet having been read by said reading device, a roll-up storage cooperates with an adjacent straight storage tray to roll [rolls] up said sheet discharged with said image surface being positioned inside to thereby store said sheet in a form of a roll.

122. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

a roll-up storage configured to cooperate with an adjacent straight storage tray to roll up a sheet being discharged from said sheet conveying device from a leading edge of said sheet and storing said sheet in a form of a roll; and

a spacing member configured to space a trailing edge of the sheet rolled up in said storage from a body of said sheet conveying device;

wherein the sheet is picked up from said roll-up storage with the trailing edge of said sheet spaced from said body.

125. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

a roll-up storage configured to cooperate with an adjacent straight storage tray roll up a sheet being discharged from said sheet conveying device from a leading edge of said sheet and store said sheet in a form of a roll;

a discharging member for discharging the sheet to an outside of said sheet conveying device; and

a speed controller constructed to control a speed at which said discharging member conveys the sheet;

wherein when the sheet is discharged toward said roll-up storage, said speed controller increases the speed to thereby space a trailing edge of said sheet rolled up in said roll-up storage from said discharging member.

126. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

roll-up storage configured to cooperate with an adjacent straight storage tray roll up a sheet being discharged from said sheet conveying device from a leading edge of said sheet and store said sheet in a form of a roll;

a discharging member configured to discharge the sheet to an outside of said sheet conveying device; and

a spacing member configured to space said roll-up storage from said discharging member to thereby space a trailing edge of the sheet rolled up in said roll-up storage from said discharging member.

127. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

a discharging member configured to discharge a sheet to an outside of said sheet conveying device; and

a roll-up storage configured to cooperate with an adjacent straight storage tray roll up the sheet at an outside of said sheet conveying device and store said sheet in a form of a roll;

wherein said roll-up storage is movable between a roll-up position for rolling up the sheet and a pick-up position for allowing a person to pick up said sheet at operating position.

128. (original): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

a straight storage protruding to the rear of said sheet conveying device and configured to store the sheet driven out of said discharging member in a straight position; and

a roll-up storage configured to be rotatable about a shaft in an upper portion of said sheet conveying device between a roll-up position, where said roll-up storage intersects said straight storage for rolling up the sheet, and a pick-up position above said sheet conveying device;

wherein when the sheet is to be stored in said straight storage, said roll-up storage is rotated about said shaft to said pick-up position to thereby unblock a conveyance path, which includes said straight storage.

129. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

a straight storage configured to store a sheet discharged at an outside of said lower unit;

a roll-up storage rotatably supported by said upper unit and configured to cooperate with said straight storage tray to selectively roll up, at a position where said roll-up storage intersects said straight storage, the sheet entered said straight storage with an inner periphery of said roll-up storage; and

an intersection restricting member included in said straight storage and configured to restrict intersection of said straight storage with said roll-up storage;

wherein said roll-up storage slides on said intersection restricting member in interlocked, relation to opening of said upper unit away from said lower unit to be thereby restricted in intersection thereof with said straight storage.

131. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

a roll-up storage configured to cooperate with an adjacent straight storage tray to roll [rolls] up said sheet discharged with said image surface being positioned inside to thereby store said sheet in a form of a roll.

133. (amended): In an image reading device with a sheet conveying device mounted thereon, said sheet conveying device comprises:

a roll-up storage configured to cooperate with an adjacent straight storage tray to receive the sheet discharged from the sheet conveying device, roll up said sheet from a leading edge of said sheet, and store said sheet in a form of a roll; and

a connecting member configured to displaceably connect said roll-up storage to the sheet conveying device;

wherein said roll-up storage is connected to the sheet conveying device such that when said roll-up storage is displaced, a trailing edge of the sheet rolled up in said roll-up storage is spaced from said sheet conveying device.

134. (amended): An image reading device including an image reading device for reading an image surface of a sheet from above said sheet, said image reading device comprising:

a discharging member configured to discharge the sheet having been read face up; and

a roll-up storage configured to cooperate with an adjacent straight storage tray to roll up the sheet discharged by said discharging member with the image surface being positioned inside and store said sheet in a form of a roll.